Thin Solid Films, 146 (1987) 314

Contents of Vol. 146

ELECTRONICS AND OPTICS

The influence of iodine on the electrical properties of lead phthalocyanine 1
W. Wacławek and M. Ząbrowska-Wacławek (Opole, Poland)

Optimization of thermal performance of Langmuir–Blodgett film pyroelectric devices. 7
G. W. Smith (Malvern, U.K.) and T. J. Evans (Uxbridge, U.K.)

Investigation of ring structures for metal–semiconductor contact resistance determination 15
A. J. Willis and A. P. Botha (Pretoria, South Africa)

Annealing behaviour and magnetic properties of Co/Pt and Fe/Pt bilayer thin films. 21
M. Kitada (Tokyo, Japan)

METALLURGICAL AND PROTECTIVE COATINGS

Intrinsic stress in diamond-like carbon films and its dependence on deposition parameters. 27
D. Nir (Cleveland, OH, U.S.A.)

PREPARATION AND CHARACTERIZATION

The morphology and structure of chemically vapour-deposited Ti(C, N) coatings 45
D.-J. Cheng, W.-P. Sun and M.-H. Hon (Tainan, Taiwan)

Kinetics of the formation of nickel aluminide coatings on pure nickel by chemical vapour deposition 55
W.-P. Sun, H. J. Lin and M.-H. Hon (Tainan, Taiwan)

Indium selenide film formation by the double-source evaporation of indium and selenium 65
M. Yudasaka, T. Matsuoka and K. Nakanishi (Yokohama, Japan)

Roll-to-roll preparation of a hydrogenated amorphous silicon solar cell on a polymer film substrate 75
M. Yano, K. Suzuki, K. Nakatani and H. Okaniwa (Tokyo, Japan)

Electron microscope observations and measurements in the Al/Ag thin film system 83
R. A. Fouracre (Glasgow, U.K.)

Structure and physical properties of plasma-grown amorphous hydrogenated carbon films 93
P. Couderc and Y. Catherine (Nantes, France)

GENERAL FILM BEHAVIOUR

Effect of laser irradiation on evaporated stearic acid 109
M. Tawata, S. Morita and S. Hattori (Nagoya, Japan)

ELECTRONICS AND OPTICS

Asymmetries in the optical properties of vacuum-deposited organic films illuminated at the substrate and non-substrate surfaces 115
J. Godlewski, J. Kalinowski (Gdańsk, Poland), S. Stizza, I. Davoli and R. Bernardini (Camerino, Italy)

Ternary alloy films of Ni–Cr–Al for thin film resistors 133
E. Schippel (Wismar, G.D.R.)

Trap diagnostic of thin cadmium sulphide films 139
P. Lal (Lusaka, Zambia)

Un modèle de couche inhomogène valable dans un large domaine spectral et pour une incidence quelconque 145
J. P. Borgogno, P. Roche and G. Albrand (Marseille, France)

Electrical properties of multilayered Al/Ni and Al/Mo films 155
H. Hoffmann and P. Kücher (Regensburg, F.R.G.)

METALLURGICAL AND PROTECTIVE COATINGS

Tempering effects in ion-plated TiN films: texture, residual stress, adhesion and colour 165
A. J. Perry (Waldenburg, Switzerland)

PREPARATION AND CHARACTERIZATION

Onset of graphoepitaxy at a monatomic step 175
Y. Kasukabe and T. Osaka (Tokyo, Japan)

On the role of carrier gas in the deposition kinetics of SiO_2 films produced by low temperature chemical vapour deposition 183
C. Cobianu, C. Pavelescu and E. Segal (Bucharest, Romania)

Some properties of r.f. planar magnetron-sputtered Corning 7059 glass films 191
H. Jerominek, S. Patela, J. Y. D. Pomerleau, C. Delisle and R. Tremblay (Quebec, Canada)

Low temperature oxygen dissolution in titanium 201
G. Ottaviani, F. Nava (Modena, Italy), G. Queirolo, G. Iannuzzi, G. De Santi (Milan, Italy) and K. N. Tu (Yorktown Heights, NY, U.S.A.)

Langmuir–Blodgett multilayers of polymer–merocyanine-dye mixtures 209
P. Stroeve, M. P. Srinivasan, B. G. Higgins and S. T. Kowel (Davis, CA, U.S.A.)

LETTERS

Some remarks about "Comments on Bąk's model ..." by Mycielski L1
G. W. Bąk (Łódź, Poland)

Comments on Bąk's model of the field-dependent mobility in organic layers II: Reply to the author's latest remarks L7
W. Mycielski (Łódź, Poland)

Influence of the individual layer thickness on the depth resolution determined in sputter depth profiling of multilayers L11
D. Marton (Budapest, Hungary)

ELECTRONICS AND OPTICS

Encapsulation and annealing studies of semi-insulating InP 221
C. W. Farley, T. S. Kim, B. G. Streetman (Austin, TX, U.S.A.), R. T. Lareau and P. Williams (Tempe, AZ, U.S.A.)

Mechanisms of the temperature quenching of luminescence due to deep centres in $CdSe_xTe_{1-x}$ ($0 < x < 1$) alloys 233
I. B. Ermolovich, A. M. Pavelets and L. N. Khanat (Kiev, U.S.S.R.)

A.c. properties of polycrystalline GaAs and $(GaAs)_{1-x}(SiC_2{:}H)_x$ grown by metal–organic chemical vapour deposition 241
S. Sahli, Y. Segui and F. Maury (Toulouse, France)

PREPARATION AND CHARACTERIZATION

Plasma-enhanced chemical vapour deposition of AlN coatings on graphite substrates 255
H. Itoh, M. Kato and K. Sugiyama (Nagoya, Japan)

Auger electron spectroscopy and capacitance–voltage investigation of the AlN–Si interface 265
A. G. Abdullayev, S. K. Khanjanov, G. N. Kasimova and T. G. Fufayeva (Baku, U.S.S.R.)

Metastable phases in vapour-deposited Al–Zr thin films 273
S. K. Pandey and C. Suryanarayana and D. K. Gangopadhyay (Varanasi, India)

Effect of dilution gases in methane on the deposition of diamond-like carbon in a microwave discharge
II: Effect of hydrogen 283
O. Matsumoto and T. Katagiri (Tokyo, Japan)

Structure of GaAs–$In_{0.2}Ga_{0.8}As$ heterojunction interface studied by electron spectroscopies: X-ray photoelectron spectroscopy, tunable electron energy loss spectroscopy and Auger electron spectroscopy 291
M. Iwami (Okayama, Japan), Y. Watanabe, H. Kato, M. Nakayama and N. Sano (Nishinomiya, Japan)

GENERAL FILM BEHAVIOUR

The orientation and morphology of chromium deposits on hot Cu{111} substrates 299
H. K. Gaigher and H. G. van der Berg (Pretoria, South Africa)

LETTERS

Deposition of Langmuir–Blodgett films of ferric stearate L15
M. Prakash, J. B. Peng, J. B. Ketterson and P. Dutta (Evanston, IL, U.S.A.)

Semiconductor properties of amorphous C–Sn thin films L19
P. Mpawenayo, F. Demichelis, P. Rava, A. Tagliaferro, E. Tresso and G. Kaniadakis (Turin, Italy)

Decoration of alkali halide crystals with In_2O_3 and SnO_2 by spraying technique L23
M. G. Mikhailov, T. M. Ratcheva and M. D. Nanova (Sofia, Bulgaria)

Effect of electrodes and high fields on the electrical conductivity of evaporated germanium and tellurium thin films L27
R. Mathur and A. Kumar (Kanpur, India)

Surface hardness enhancement of titanium by an ion implantation technique L33
R. Pratap, M. H. N. Beshai and R. T. Dhamejani (Bombay, India)

A study of the Kirkendall effect in magnetic bilayers by the spin wave resonance method L37
W. Maciejewski (Poznań, Poland)

Thermally induced phenomena in $Ga_{1-x}Al_xAs$ optical filters L41
B. Kumar and D. F. Stevison (Dayton, OH, U.S.A.)

AUTHOR INDEX 313